

PKI



Digital identities provisioning
in production

- **Address identities provisioning** needs of manufacturers and integrators (OEM, ODM, EMS...) for connected devices.
- **Target connected devices** based on programmable components (MPU, MCU, FPGA...).

OVERVIEW

- **Digital identity provisioning** is an essential first step in production to **ensure security** throughout the device lifecycle.
- Currently more and more standards enforce a **device identity injection at factory level** (Matter, EV-charging...).
- **Assigning each device** with an identity means the provisioning of a **unique digital certificate** per device.
- Today's solutions for certificate provisioning in production are time consuming, difficult to scale and lead to human errors.

Trusted Objects provides **tops Plug&Go-PKI** an innovative solution to overcome such barriers.



TOPS PLUG&GO PKI SERVICE BENEFITS

1 **Increase security**
Reduce complexity
and cost

- **Simplify** the provisioning process
- **Remove room** for human errors
- **Ensure trust** in the manufacturing operations

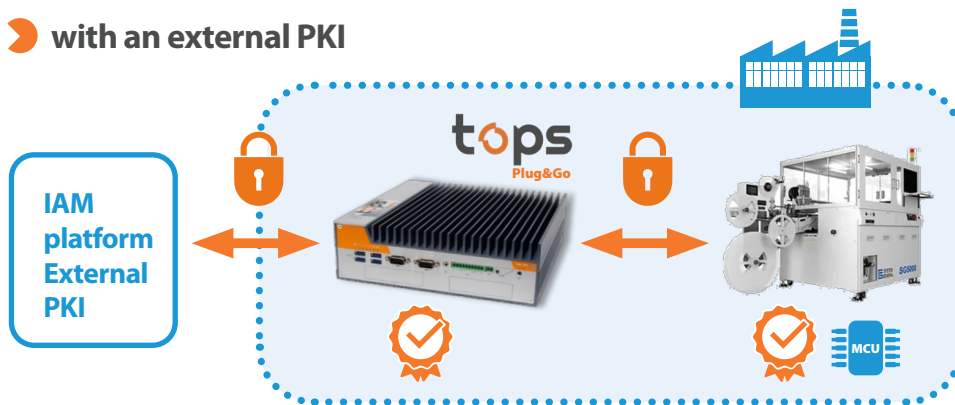
2 **Automate**
and scale

- **Fully automate** the process of assigning an identity per device
- **Fit** with volume increase in production

3 **Flexibility**

- **Can be used** with any device or chipset
- **Easily integrated** with most of programming equipments or test benches

with an external PKI



with an internal PKI standalone mode



Product features and services

Services

- **Secure generation of certificates:** asymmetric key generation (RSA, ECC)
- **Management of PKI tree:** CA / intermediate CA / unique certificate SN
- **Interface and secure channel** with any external PKI platform
- **Secure provisioning:** serial number / certificates and keys injection into the programmable component
- **Secure storage** of all certificates and keys in the programming facility
- **Overproduction control:** production batches signed reports



Ressources

- **Credits** for a preset number of certificate provisioning
- **Technical** support for installation
- **Full set** of documentation

Secure computer

- Portable **industrial computer**
- **256 GB SSD**
- **TPM 2.0 / HSM**
- **Secure OS** and SW update
- **Secure connection** to the device programmer
- **Application server** with User interface (UI)

Pay-per-use business model

Initial setup fee + Licensing based on the number of secure provisioning operations

Who are we ?

Trusted Objects is a leading player in cybersecurity technologies for embedded systems.

Trusted Objects products and services for constrained devices are positioned to create trust all along the value chain including edge devices, networks, clouds and manufacturing.